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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/640,663	08/18/2000	TAKASHI YOSHIDA	862.C1977	6608	
5514	7590 11/17/2004		EXAM	EXAMINER	
	CK CELLA HARPER	RAHIMI, IRAJ A			
30 ROCKEFI NEW YORK	ELLER PLAZA NY 10112		ART UNIT	PAPER NUMBER	
			2622		

DATE MAILED: 11/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		09/640,663	YOSHIDA, TAKASHI	
	Office Action Summary	Examiner	Art Unit	
		(Iraj) Alan Rahimi	2622	
Period f	The MAILING DATE of this communication Reply	on appears on the cover sl	neet with the correspondence address	
A SH THE - Exte after - If th - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT nsions of time may be available under the provisions of 37 (SIX (6) MONTHS from the mailing date of this communicat e period for reply specified above is less than thirty (30) days of period for reply is specified above, the maximum statutory tre to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no event, however ion. s, a reply within the statutory minimu period will apply and will expire SIX attatute, cause the application to be	, may a reply be timely filed m of thirty (30) days will be considered timely. (6) MONTHS from the mailing date of this communicatio come ABANDONED (35 U.S.C. § 133).	on.
Status				
1)⊠ 2a)⊠ 3)□	Responsive to communication(s) filed on This action is FINAL . 2b) Since this application is in condition for a closed in accordance with the practice un	This action is non-final.	-	s
Disposit	ion of Claims			
5)	Claim(s) <u>1-16</u> is/are pending in the applic 4a) Of the above claim(s) is/are wi Claim(s) is/are allowed. Claim(s) <u>1-16</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction	thdrawn from consideration		
Applicat	on Papers		•	
10)⊠	The specification is objected to by the Exa The drawing(s) filed on <u>18 August 2000</u> is Applicant may not request that any objection to Replacement drawing sheet(s) including the of The oath or declaration is objected to by the	dare: a)⊠ accepted or by to the drawing(s) be held in a correction is required if the di	abeyance. See 37 CFR 1.85(a). rawing(s) is objected to. See 37 CFR 1.121(o	d).
Priority (ınder 35 U.S.C. § 119			
a)l	Acknowledgment is made of a claim for food All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International Bose the attached detailed Office action for	ments have been receive ments have been receive e priority documents have ureau (PCT Rule 17.2(a))	d. d in Application No been received in this National Stage	
Attachmen	r(s)		PAPAINAMA EVERNISE	····
2) 🔲 Notic 3) 🔲 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94 nation Disclosure Statement(s) (PTO-1449 or PTO/S No(s)/Mail Date	8) Pap (B/08) 5) Not	rview Summary (PTO-413) er No(s)/Mail Date ce of Informal Patent Application (PTO-152) er:	

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DETAILED ACTION

Response to Amendment

1. In papers filed on June 21, 2004, 2004, applicant amended claims 1, 3, 4, 9-12, 15 and 16.

Response to Arguments

2. Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 1, 3-5 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakanishi in view of McClure et al. (US patent 6,250,548).

Regarding claim 1, Nakanishi discloses a multifunction apparatus, which is so adapted that any device of a plurality of types can be selectively attached thereto, for executing control that differs depending upon the type of device attached, the apparatus comprising:

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transmitting means for transmitting a timing signal, which is for acquiring identifying information stored in an attached device, to the attached device (column 3, lines 50-59 and column 4, lines 7-43);

receiving means for receiving the identifying information that has been sent from the attached device in accordance with the timing signal (column 3, lines 50-59 and column 4, lines 7-43);

determination means for determining, with regard to a device of a specific type, whether specific data contained in the identifying information is indicative of a predetermined value (column 3, lines 50-59 and column 4, lines 7-43); and

control means for exercising control upon construing that the attached device is of the specific type in a case where the determination means has determined that the specific data is indicative of the predetermined value (column 3, lines 50-59 and column 4, lines 7-43).

However, Nakanishi does not disclose that the identifying information is represented as digital information comprising a plurality of bits and that specific data of the identification information comprising two or more bits including different values, and the number of bits being less than that of the plurality of bits. McClure discloses in column 13, lines 22-42 that serial network protocol uses 11 bit or 29-bit unique identifiers to identify each device.

Nakanishi and McClure are combinable because they are from the same filed of endeavor that is an apparatus, which can receive plurality of devices through serial connection.

At the time of invention it would have been obvious to a person skilled in the art, to use multi-bit addressing of McClure to identify multiple devices.

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The suggestion/motivation to do so would have been to enable the network to be connected to a very large number of compatible devices as well as carrying encrypted information.

Therefore, it would have been obvious to combine Nakanishi with McClure to obtain the invention as specified in claim.

Regarding claim 3, McClure discloses the apparatus according to claim 1, said specific data comprising two or more bits transmitted in succession (column 13, lines 22-42).

Regarding claim 4, McClure discloses the apparatus according to claim 1, wherein the predetermined value is; such that the values of the bits thereof differ alternately. With each device having separate identification information, the bits representing the identification data would naturally change also.

Regarding claim 5, Nakanishi discloses the apparatus according to claim 1, wherein devices include a device having an information input function and a device having an information output function (column 5, lines 11-20). ROM, which can be used in a device to include device ID, has input and output function for accepting signals to detect device ID. Device ID is then output to multifunction apparatus.

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Regarding claim 6, Nakanishi discloses the apparatus according to claim 1, wherein devices include a scanner unit 402, for reading a document image and a printhead cartridge 401 for outputting an image to a printing medium.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nakanishi in view of McClure et al. (US patent 6,250,548) and further in view of Suzuki (US patent 6,309,045).

Regarding claim 2, Nakanishi does not disclose the apparatus according to Claim 1, wherein said control means includes means for giving notification of the fact the attached device has not been electrically connected correctly if said determination means has determined that the specific data is not indicative of the predetermined value. Suzuki et al. discloses in column 6, lines 66-67 to column 7, lines 1-9 that print head has made an electrical connection.

Nakanishi and Suzuki are combinable art because they are from the same field of endeavor that is printing art. It would have been obvious to a person skilled in the art, at the time of invention to use electrical connectivity as a more versatile method of ensuring proper insertion of the print head as opposed to mechanical methods.

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7. Claims 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakanishi in view of McClure (US patent 6,250,548) and further in view of Fukazawa (US patent 5,936,740).

Regarding claim 7, Nakanishi discloses the apparatus according to claim 6, wherein the printhead cartridge 401 includes an ink-jet printhead for printing by discharging ink, but does not disclose an ink tank containing ink supplied to said printhead. Fukazawa discloses in column 10, lines 31-35 an ink tank. Nakanishi and Fukuazawa are analogous art because they are from the same field of endeavor that is printing art. Therefore, it would have been obvious to a person skilled in the art, at the time of invention to use the ink tank of Fukazawa for quick change over of the ink supply.

Regarding claim 8, Fukazawa discloses the apparatus according to claim 7, wherein said printhead discharges ink by utilizing thermal energy and has a thermal energy converter for generating thermal energy applied to the ink (column 10, lines 36-63).

Regarding claim 9-14, arguments analogous to those presented for claim 1-6, are respectively applicable.

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Regarding claims 15 and 16, arguments analogous to those presented for claim 1, are applicable.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Information

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to (Iraj) Alan Rahimi whose telephone number is 703-306-3473. The examiner can normally be reached on Mon.-Fri. 7:30-4:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward L Coles can be reached on 703-305-4712. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3800.

Alan Rahimi

November 10, 2004

PRIMARY EXAM